Name & Surname: _____ Class: _____ Date: _____

Long Division Fluency



Divide multi-digit numbers with confidence

About 45 minutes Level ★★★☆☆

Long Division Steps

Use the **standard algorithm** to divide large numbers one digit at a time.

- Divide the first digits by the divisor. Write the digit on top.
- Multiply back, then subtract to find what is left.
- Bring down the next digit and repeat.
- Check by multiplying quotient by divisor and adding any remainder.

Task A

/4

Partition each dividend to show the place value of every digit.

1. **864 =** _____
2. **936 =** _____
3. **4524 =** _____
4. **7350 =** _____

Key words

dividend: the number being divided

divisor: the number you divide by

quotient: the answer to division

remainder: the amount left over

standard algorithm: the usual step-by-step way to divide

Created with LessonDino.com · AI lesson planner with checkable sources

Master Single Divisors

Practice dividing by one-digit divisors.

Task B

/12

Solve with the standard algorithm. Show divide, multiply, subtract, and bring down.

WARM UP

1. Work out 48 ÷ 4

Answer: _____

2. Work out 96 ÷ 3

Answer: _____

3. Work out 84 ÷ 7

Answer: _____

4. Work out 125 ÷ 5

Answer: _____

PRACTICE

5. Work out 372 ÷ 3

Answer: _____

6. Work out 576 ÷ 4

Answer: _____

7. Work out 845 ÷ 5

Answer: _____

8. Work out 936 ÷ 6

Answer: _____

PROBLEM SOLVING

9. A class has 648 pencils to share **equally** among 6 classes. How many pencils does **each** class get?

Answer: _____

10. Four tickets cost $52 in total. What is the price of **each** ticket?

Answer: _____

11. A printer packs 1,260 pages **equally** into 7 boxes. How many pages in **each** box?

Answer: _____

12. Explain how you know 720 ÷ 6 = 120 is correct.

Answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

Tackle Bigger Divisors

Practice dividing by two-digit divisors with remainders.

Task C

/12

Divide by two-digit divisors. Estimate first, then divide exactly.

WARM UP

1. Work out 144 ÷ 12

Answer: _____

2. Work out 252 ÷ 14

Answer: _____

3. Work out 315 ÷ 15

Answer: _____

4. Work out 408 ÷ 17

Answer: _____

PRACTICE

5. Work out 1,155 ÷ 15

Answer: _____

6. Work out 1,824 ÷ 24

Answer: _____

7. Work out 2,736 ÷ 18

Answer: _____

8. What is the **remainder** when 1,000 ÷ 12?

Answer: _____

PROBLEM SOLVING

9. A factory packs 1,380 bottles into boxes of 15. How many **full** boxes does it fill?

Answer: _____

10. Twelve teams share a $1,152 prize **equally**. How much does **each** team get?

Answer: _____

11. A library has 2,500 books. Each shelf holds 24 books. How many **full** shelves can be filled?

Answer: _____

12. A student says 1,200 ÷ 20 = 60. Explain how you know she is **correct**.

Answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

Write It Neatly

Set out division carefully and order the steps.

Task D

/4

Solve with short division. Line up each digit neatly.

1. $4\overline{)864}$

2. $6\overline{)936}$

3. $3\overline{)4524}$

4. $7\overline{)7350}$

Task E

Example done for you

/4

Put the long division steps in order.

- [ ] Repeat the steps until no digits are left, then check by multiplying quotient by divisor and adding any remainder.
- [ ] Subtract to find the leftover amount.
- [1] Divide the first digit or digits of the dividend by the divisor to get the first digit of the quotient.
- [ ] Multiply the divisor by that quotient digit and write the product below.
- [ ] Bring down the next digit of the dividend next to the leftover.

Created with LessonDino.com · AI lesson planner with checkable sources

Fix and Model

Spot division mistakes and solve bar model problems.

Task F

/4

Find the wrong step in each solution and write the correct answer.



Student A

Work out 735 ÷ 7

1. 735 ÷ 7
2. 7 ÷ 7 = 1, bring down 3. 3 ÷ 7 = 0, write 0 in the quotient.
3. Bring down 5 to make 35. 35 ÷ 7 = 5. So the answer is 15

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

Work out 648 ÷ 4

1. 648 ÷ 4
2. 4 into 6 goes 1, 6 – 4 = 2. Bring down 4 to make 24. 4 into 24 goes 6.
3. Bring down 8 to make 8. 4 into 8 goes 1. So the answer is 161

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

Created with LessonDino.com · AI lesson planner with checkable sources

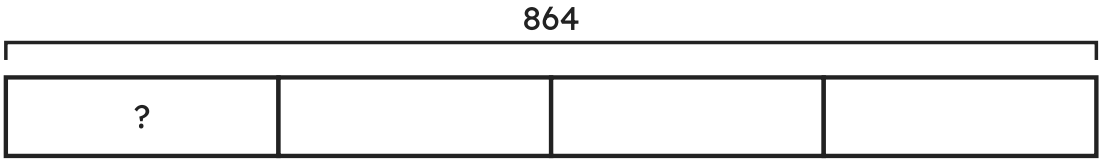
Long Division Fluency

Task G

/4

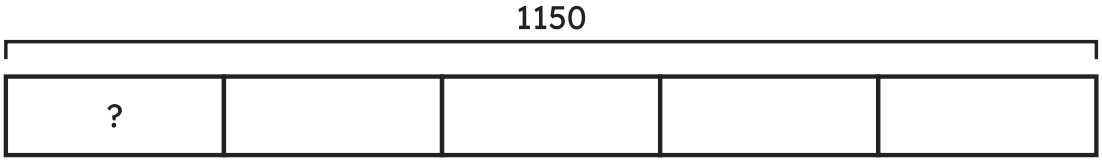
Use the bar model to divide equally. Find the missing part.

1 A class library has 864 books to put **equally** on 4 shelves. How many books go on **each** shelf?



Answer: _____ **books**

2 A school collects 1,150 cans for recycling. They pack them **equally** into 5 boxes. How many cans are in **each** box?



Answer: _____ **cans**

How did I do?

Circle a face for each line.

I can divide multi-digit numbers by one-digit divisors.	☹	😐	☺
I can divide by two-digit divisors and handle remainders.	☹	😐	☺
I can check my work and fix division mistakes.	☹	😐	☺

Created with LessonDino.com · AI lesson planner with checkable sources

Answer sheet: Long Division Fluency

Task A

1. 864 = 800 + 60 + 4
2. 936 = 900 + 30 + 6
3. 4524 = 4000 + 500 + 20 + 4
4. 7350 = 7000 + 300 + 50

Task B

1. 12
2. 32
3. 12
4. 25
5. 124
6. 144
7. 169
8. 156
9. 108 pencils
10. $13
11. 180 pages
12. 120 x 6 = 720, so 720 ÷ 6 = 120 because multiplication checks division.

Task C

1. 12
2. 18
3. 21
4. 24
5. 77
6. 76
7. 152
8. 4
9. 92 boxes
10. $96
11. 104 shelves
12. 60 x 20 = 1,200, so the division is correct because 12 ÷ 2 = 6 and place value gives 60.

Task D

1. 864 ÷ 4 = 216
2. 936 ÷ 6 = 156
3. 4524 ÷ 3 = 1508
4. 7350 ÷ 7 = 1050

Task E

1. Divide the first digit or digits of the dividend by the divisor to get the first digit of the quotient. 2. Multiply the divisor by that quotient digit and write the product below. 3. Subtract to find the leftover amount. 4. Bring down the next digit of the dividend next to the leftover. 5. Repeat the steps until no digits are left, then check by multiplying quotient by divisor and adding any remainder.

Task F

1. Step 3 is wrong: They left out the 0 in the tens place. The quotient needs a 0 when the divisor does not go into that digit. Correct answer: 105

2. Step 3 is wrong: They divided 8 by 4 as 1. 4 × 2 = 8, so the last digit is 2. Correct answer: 162

Task G

1. 216 books

2. 230 cans

Pictures: Drawing: DG-RA · CC0 · Wikimedia Commons; Characters: Open Peeps by Pablo Stanley (CC0)

Created with LessonDino.com · AI lesson planner with checkable sources